REMARKS

Claims 2-6 remain pending in the present application. Claim 1 has been canceled. Claims 2-5 have been amended. Claim 6 is new. Basis for the amendments and new claims can be found throughout the specification, claims and drawings originally filed.

REJECTION UNDER 35 U.S.C. § 102

Claim 1 is rejected under 35 U.S.C. § 102(e) as being anticipated by H'mimy (U.S. Pat. No. 5,912,876). Applicants respectfully traverse this rejection. Claim 1 has been canceled. Reconsideration of the rejection is respectfully requested.

REJECTION UNDER 35 U.S.C. § 103

Claim 2 is rejected under 35 U.S.C. § 103(a) as being unpatentable over H'mimy, in view of Siala (U.S. Pat. No. 6,768,713). Applicants respectfully traverse this rejection. Claim 2 depended from Claim 1. Claim 2 has been amended to independent form to include the limitations of Claim 1.

Siala ('713) is available as a 35 U.S.C. § 103 reference by way of 35 U.S.C. § 102(e). Enclosed is a verified English translation of the priority Japanese application JP 2000-46799. The priority Japanese application was filed on February 18, 2000 and thus it antedates the Siala reference which was filed on September 12, 2000. Applicants thus believe that the perfecting of the priority claim of the present application removes Siala as a reference under 35 U.S.C. § 103 by way of 35 U.S.C. § 102(e). Reconsideration of the rejection is respectfully requested.

Claim 4 is rejected under 35 U.S.C. § 103(a) as being unpatentable over H'mimy, in view of Wahlqvist (U.S. Pat. No. 6,088,398). Applicants respectfully traverse this rejection. Claim 4 depended from Claim 1. Claim 4 has been amended to independent form to include the limitations of Claim 1.

The present invention in Claim 4 is characterized in that transmission path characteristics are estimated with an interpolation by using Sinc functions and compensating amplitude and phase of information signals with the estimated transmission path characteristics.

H'mimy ('876) discloses the estimation of transmission path characteristics and compensation of the amplitude and phase of an OFDM signal by using the estimated characteristics.

Wahlqvist, et al. ('398) discloses, particularly in column 3, lines 3-6, overlapping of general sub-carrier frequency spectrum with reference to Figure 1. As shown in Figure 1, the frequency spectrum of one sub-carrier is zero at a peak point of another sub-carrier. Thus, column 3, lines 3-6 only teaches that the frequency spectrum overlapping is a Sinc function.

Neither H'mimy nor Wahlqvist, et al. teaches interpolation by using a Sinc function.

Thus, Applicants believe Claim 4 patentably distinguishes over the art of record. Reconsideration of the rejection is respectfully requested.

NEW CLAIM

New Claim 6 is an independent claim which also defines interpolation by using a Sinc function.

CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action, and as such, the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

Dated: December 13, 2004

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